

GeDiPNet Cluster 577 -- Enriched Pathways

Pathway enrichment: KEGG + Reactome, upper-tail hypergeometric test, Benjamini-Hochberg FDR-corrected. Fold enrichment = (overlap / cluster gene count) / (pathway gene count / universe size). Top 15 pathways per cluster by q-value. See [scripts/build_cluster_enrichment.php](#) on [gedipnet.bicnirrh.res.in](#). Data as of: 2026-10-20 03:30:09. · Rows: 15 · Generated: 2026-10-19 23:20:16

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
STAT6-mediated induction of chemokines	Reactome	1	TBK1	3	3	1334.44	7.493e-4	9.089e-3
IRF3 mediated activation of type 1 IFN	Reactome	1	TBK1	5	3	800.67	1.249e-3	1.343e-2
Constitutive Signaling by NOTCH1 t(7;9)(NOTCH1:M1580_K2555) Translocation Mutant	Reactome	1	ADAM10	7	3	571.90	1.748e-3	1.725e-2
TICAM1-dependent activation of IRF3/IRF7	Reactome	1	TBK1	12	3	333.61	2.995e-3	2.538e-2
IRF3-mediated induction of type I IFN	Reactome	1	TBK1	13	3	307.95	3.244e-3	2.694e-2
TRAF3-dependent IRF activation pathway	Reactome	1	TBK1	14	3	285.95	3.493e-3	2.829e-2
Regulation of innate immune responses to cytosolic DNA	Reactome	1	TBK1	14	3	285.95	3.493e-3	2.829e-2
Constitutive Signaling by NOTCH1 HD Domain Mutants	Reactome	1	ADAM10	15	3	266.89	3.743e-3	2.976e-2
Activation of IRF3/IRF7 mediated by TBK1/IKK epsilon	Reactome	1	TBK1	18	3	222.41	4.490e-3	3.394e-2
NOTCH3 Activation and Transmission of Signal to the Nucleus	Reactome	1	ADAM10	19	3	210.70	4.739e-3	3.521e-2
Interleukin-37 signaling	Reactome	1	TBK1	21	3	190.63	5.237e-3	3.760e-2
Negative regulators of DDX58/IFIH1 signaling	Reactome	1	TBK1	27	3	148.27	6.730e-3	4.425e-2
TRAF6 mediated IRF7 activation	Reactome	1	TBK1	29	3	138.05	7.227e-3	4.641e-2
Constitutive Signaling by NOTCH1 PEST Domain Mutants	Reactome	1	ADAM10	58	3	69.02	1.442e-2	7.094e-2
Constitutive Signaling by NOTCH1 HD+PEST Domain Mutants	Reactome	1	ADAM10	58	3	69.02	1.442e-2	7.094e-2